

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P192677

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-AFL-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42132.6 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

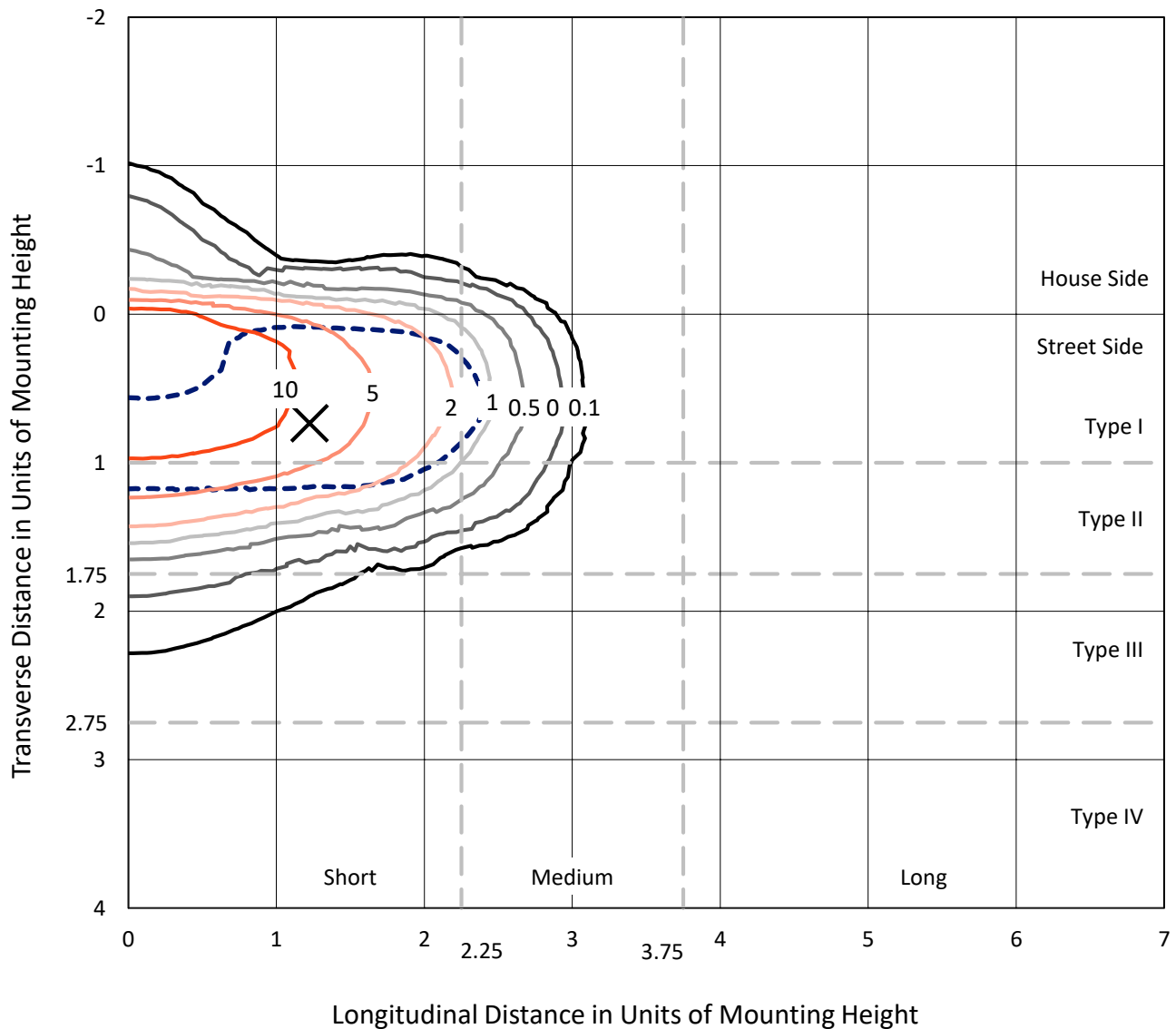


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

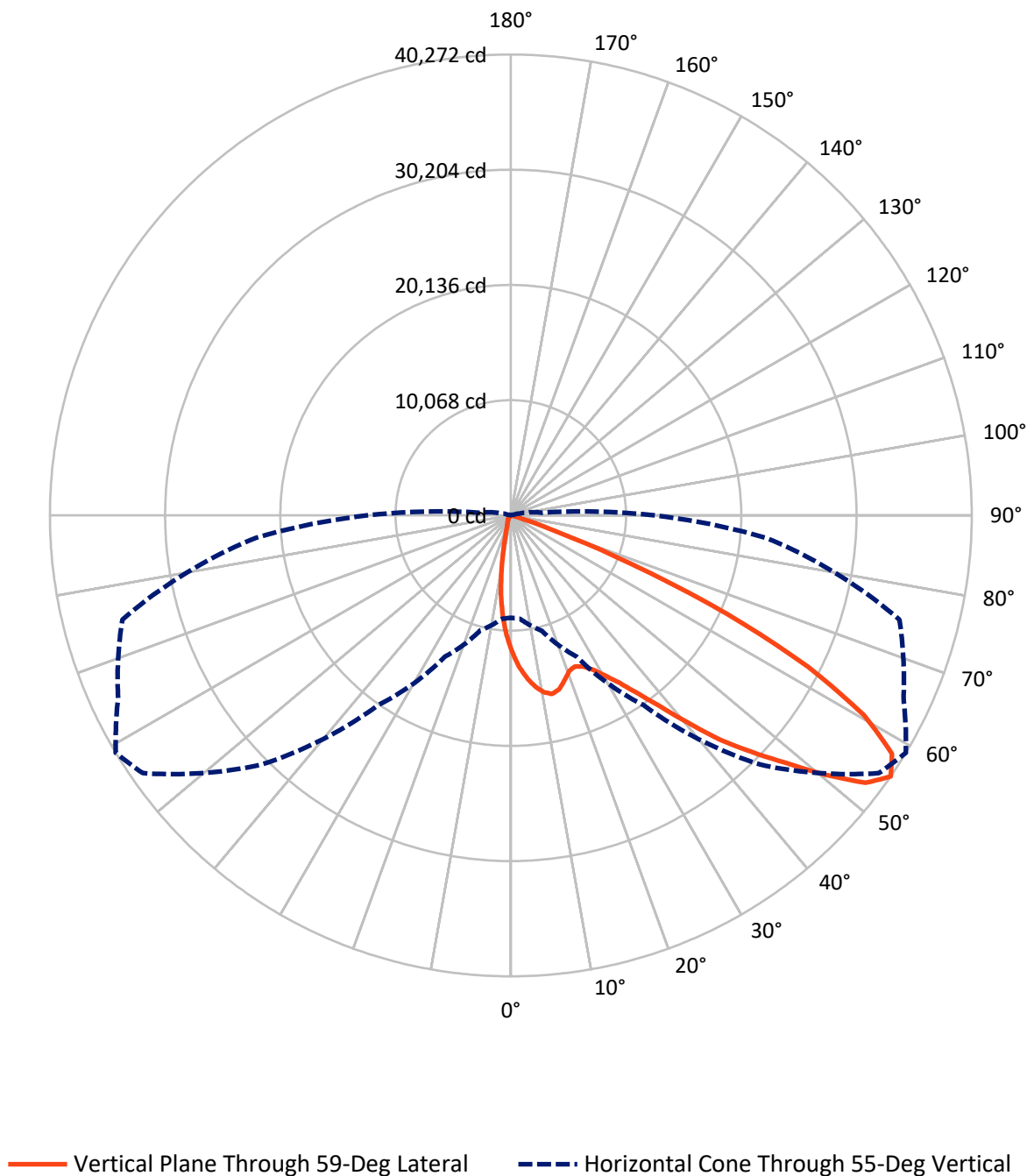


Based on 30 foot mounting height. Maximum calculated value = 16.4 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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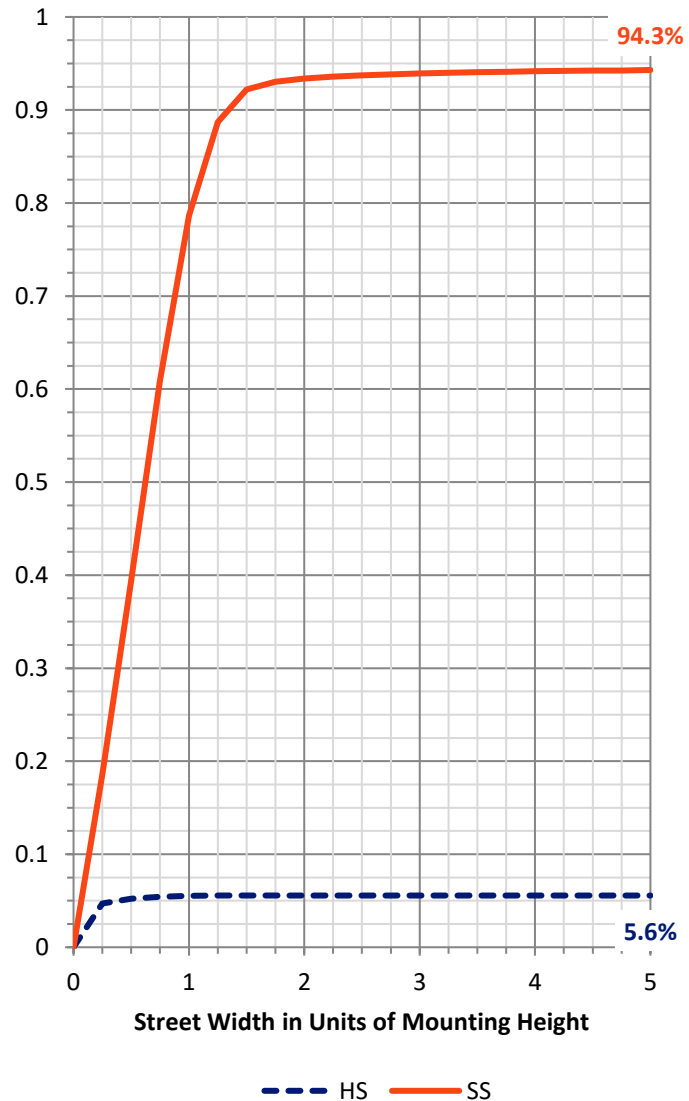
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2353.3	0.0	2353.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	39779.2	0.0	39779.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	42132.6	0.0	42132.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	993.4	2.4
10°-20°	2378.5	5.6
20°-30°	4047.3	9.6
30°-40°	6960.5	16.5
40°-50°	10746.2	25.5
50°-60°	10803.4	25.6
60°-70°	5540.1	13.1
70°-80°	600.4	1.4
80°-90°	62.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	42132.6	100.0
0°-180°	42132.6	100.0

Coefficient of Utilization



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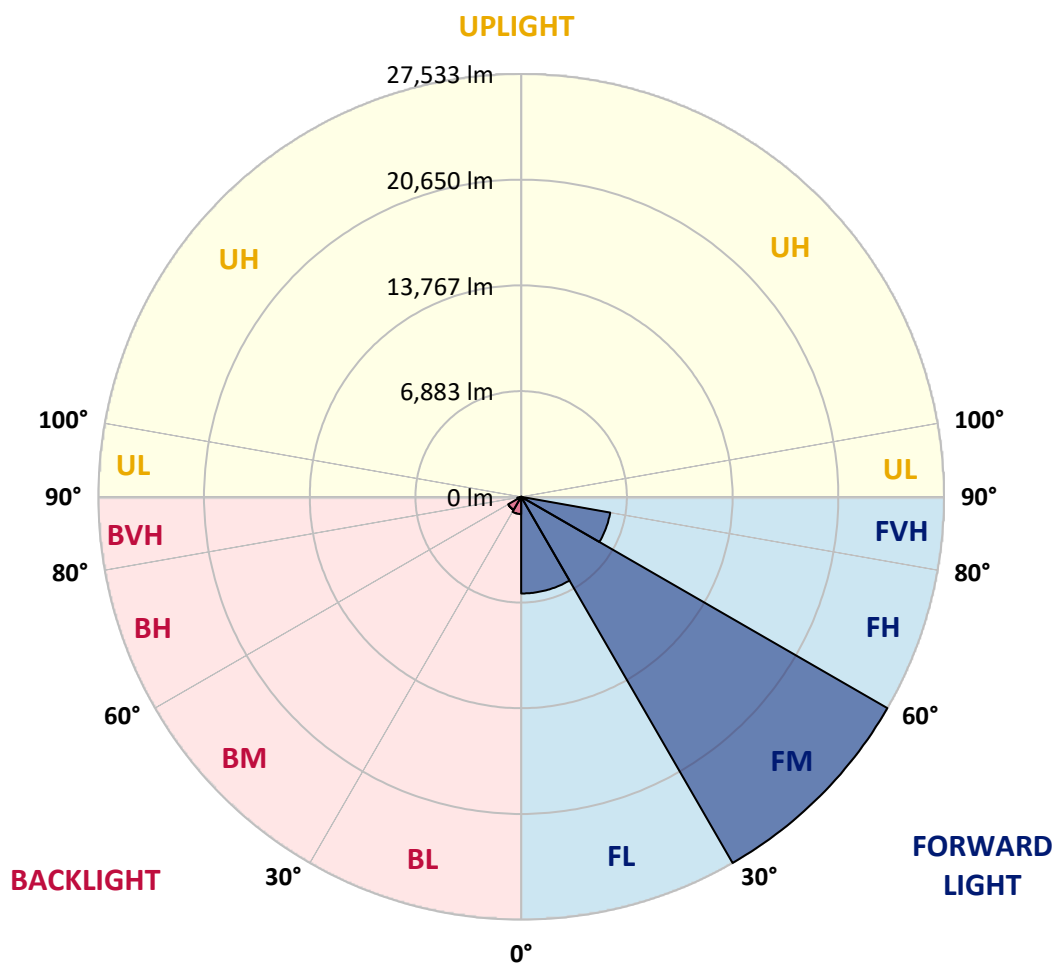
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6296.0	14.9			
FM	(30°-60°)	27533.4	65.3			
FH	(60°-80°)	5888.3	14.0			G3/7500
FVH	(80°-90°)	61.5	0.1			G1/100
BL	(0°-30°)	1123.2	2.7	B3/2500		
BM	(30°-60°)	976.7	2.3	B1/1000		
BH	(60°-80°)	252.1	0.6	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2
2.5°	14033.3	13884.1	13839.4	13809.5	13672.7	13501.1	13267.5	13158.1	12934.3	12573.8	12131.2
5°	15318.8	15291.4	15192.0	15137.3	14990.6	14746.8	14373.9	14194.9	13839.4	13232.6	12439.5
7.5°	14756.8	14928.4	15065.1	15293.9	15582.3	15572.4	15259.0	15072.7	14674.8	13874.2	12782.6
10°	12586.2	12725.4	12949.2	13468.8	14528.1	15462.9	15830.9	15696.7	15378.5	14463.4	13113.3
12.5°	12161.0	12146.2	12185.9	12337.5	12892.0	14224.7	15734.0	16005.0	15940.4	15002.9	13426.7
15°	12387.3	12369.9	12364.9	12417.1	12551.3	13113.3	15005.4	15783.7	16283.5	15502.8	13692.7
17.5°	13021.3	12946.6	12906.9	12864.6	12824.9	12964.1	14130.3	15164.6	16335.7	15940.4	13913.9
20°	14107.9	13983.5	13836.8	13598.2	13374.4	13304.7	13762.3	14528.1	16149.2	16273.5	14058.2
22.5°	15472.9	15313.8	15060.2	14625.0	14170.1	13906.5	13943.7	14326.7	15870.8	16636.6	14125.2
25°	17007.1	16803.1	16465.1	15860.8	15192.0	14724.6	14480.7	14615.1	15743.9	17061.7	14202.4
27.5°	18650.5	18424.3	17981.7	17158.7	16400.4	15768.9	15271.5	15254.1	15960.3	17618.7	14326.7
30°	20279.2	20244.3	19667.4	18797.3	17792.8	17024.4	16308.4	16216.4	16564.5	18389.4	14572.8
32.5°	22452.2	22191.2	21485.1	20589.9	19431.3	18508.8	17661.0	17447.1	17491.9	19287.1	14953.2
35°	25192.2	24906.3	23911.8	22676.0	21380.6	20291.5	19354.1	19063.3	18953.9	20756.5	15594.8
37.5°	26962.6	26957.6	26333.5	25075.4	23685.5	22484.6	21465.2	21124.5	20903.3	22531.8	16589.3
40°	27009.9	27126.7	27208.8	27196.3	26206.7	25100.2	24195.3	23775.1	23260.3	24903.9	17874.9
42.5°	25560.2	25861.1	26584.6	27812.9	28399.8	27959.7	27196.3	26783.6	26017.8	27442.4	19441.3
45°	23601.0	23809.9	25075.4	27338.1	29588.3	30794.1	30212.4	29473.9	28464.4	30090.5	20846.0
47.5°	22723.3	22760.6	23578.5	26062.4	29677.8	33116.5	33469.5	32268.6	30687.2	32223.9	21945.0
50°	20100.1	20167.3	21296.0	23852.1	28628.4	34213.0	36741.6	35602.9	33111.4	33867.3	22345.3
52.5°	15149.7	15244.2	16676.4	20219.4	25744.2	33745.5	39083.7	38807.8	35767.0	34670.4	22367.7
55°	8938.6	9062.9	10430.4	13610.7	20249.3	30771.8	39257.8	40272.3	37863.0	35145.3	22332.9
57.5°	4174.7	4261.6	5044.9	7011.7	12593.7	24319.6	36637.3	39267.8	39019.2	35396.5	22579.1
60°	2217.9	2242.8	2431.7	3035.9	5691.5	15420.8	31522.7	35458.7	37965.0	35744.6	22879.9
62.5°	1695.7	1703.3	1693.2	1765.3	2391.9	6845.1	23827.3	29150.6	33720.6	35483.5	22546.7
65°	1469.4	1481.9	1412.2	1394.9	1534.1	2441.6	14155.1	20778.9	26497.7	31960.3	20276.7
67.5°	1317.7	1322.8	1238.2	1166.2	1191.0	1320.3	5584.5	11375.3	17539.2	23427.0	14697.1
70°	1213.4	1208.4	1116.4	1002.0	969.6	902.6	1775.3	4169.7	8381.8	11880.1	6835.2
72.5°	1074.1	1076.6	1031.9	882.7	805.6	631.5	823.0	1215.8	2501.3	3237.4	1601.2
75°	952.3	939.8	885.1	790.7	663.9	415.1	407.7	542.0	770.9	765.8	345.6
77.5°	688.8	676.4	693.7	649.0	509.7	268.6	203.9	261.0	313.2	303.3	97.0
80°	504.8	497.2	447.5	539.5	450.0	184.0	126.8	139.2	161.6	136.8	29.8
82.5°	345.6	343.1	315.8	298.4	256.1	111.9	79.5	87.0	104.5	77.0	15.0
85°	54.7	62.2	228.8	181.5	151.7	49.7	54.7	59.6	69.6	42.3	5.0
87.5°	0.0	0.0	107.0	94.5	29.8	19.8	32.3	34.9	34.9	22.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2	11860.2
2.5°	11904.9	11656.4	11196.4	10721.4	10281.3	9756.7	9396.2	9125.2	8811.9	8727.3	8911.3
5°	11987.0	11517.0	10527.4	9450.8	8438.8	7317.5	6459.7	5780.9	5166.8	4957.8	5146.8
7.5°	12116.3	11417.6	9804.0	8031.1	6270.7	4520.3	3321.8	2533.6	2031.3	1882.2	1961.7
10°	12245.6	11273.4	8966.1	6350.2	3943.5	2200.5	1432.2	1143.7	1036.9	1014.5	1026.9
12.5°	12352.6	11079.4	7944.0	4515.3	2108.4	1178.6	937.3	890.1	875.1	875.1	880.2
15°	12417.1	10786.1	6733.2	2871.8	1213.4	890.1	818.1	803.0	803.0	805.6	810.6
17.5°	12409.6	10413.1	5407.9	1738.0	907.5	788.2	745.9	733.4	731.1	736.0	738.5
20°	12317.7	9925.7	4077.7	1146.2	790.7	718.6	676.4	653.9	651.4	656.4	661.3
22.5°	12143.6	9324.0	2916.5	882.7	713.6	651.4	599.2	579.3	579.3	584.3	589.2
25°	11932.3	8588.0	1994.1	748.4	644.0	579.3	529.6	512.2	517.2	529.6	532.1
27.5°	11668.7	7760.0	1355.2	641.5	559.4	507.2	470.0	457.5	470.0	487.3	492.3
30°	11442.4	6897.3	967.2	554.5	474.9	437.6	415.1	415.1	432.6	465.0	472.4
32.5°	11268.4	6061.8	745.9	489.8	412.8	380.4	367.9	380.4	407.7	440.1	447.5
35°	11246.0	5373.2	631.5	437.6	367.9	335.7	330.7	353.0	380.4	405.3	410.3
37.5°	11417.6	4736.6	569.4	395.3	328.3	298.4	293.4	320.7	348.1	377.9	385.3
40°	11743.3	4236.8	524.7	355.5	295.9	263.6	253.6	273.4	310.9	350.6	360.5
42.5°	12166.0	3824.1	474.9	315.8	263.6	218.8	206.4	228.8	268.6	310.9	323.2
45°	12568.7	3468.6	420.2	271.1	221.2	169.1	164.1	193.9	213.8	256.1	266.0
47.5°	12790.1	3155.3	373.0	221.2	171.5	136.8	136.8	144.2	164.1	213.8	223.8
50°	12715.5	2904.1	323.2	164.1	119.3	104.5	104.5	101.9	131.7	171.5	179.0
52.5°	12566.4	2759.9	278.5	126.8	82.1	74.7	67.0	74.7	92.0	109.4	111.9
55°	12543.9	2735.1	233.7	101.9	57.2	49.7	37.2	37.2	37.2	34.9	29.8
57.5°	12718.0	2774.8	196.4	82.1	42.3	32.3	19.8	0.0	0.0	0.0	0.0
60°	12897.0	2817.1	169.1	57.2	29.8	17.4	2.5	0.0	0.0	0.0	0.0
62.5°	12598.5	2722.6	141.7	34.9	22.4	7.4	0.0	0.0	0.0	0.0	0.0
65°	11067.0	2317.3	111.9	24.9	15.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7871.9	1551.5	74.7	15.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3592.9	649.0	47.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	768.3	201.4	32.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	156.7	146.7	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	49.7	231.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.8	166.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)